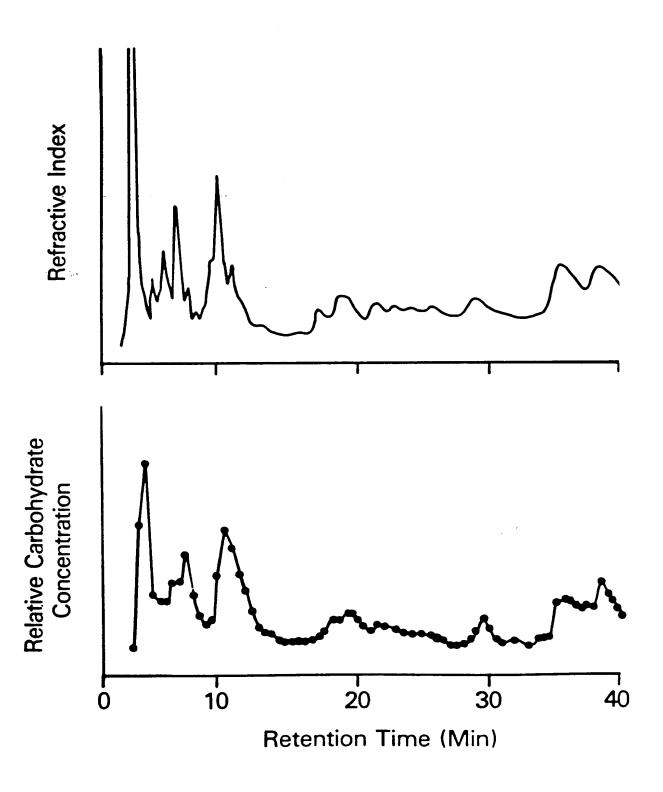


Quillaja saponaria Molina Bark Extract HPLC of Dialyzed, Methanol-Soluble

Figure 1

Figure 2



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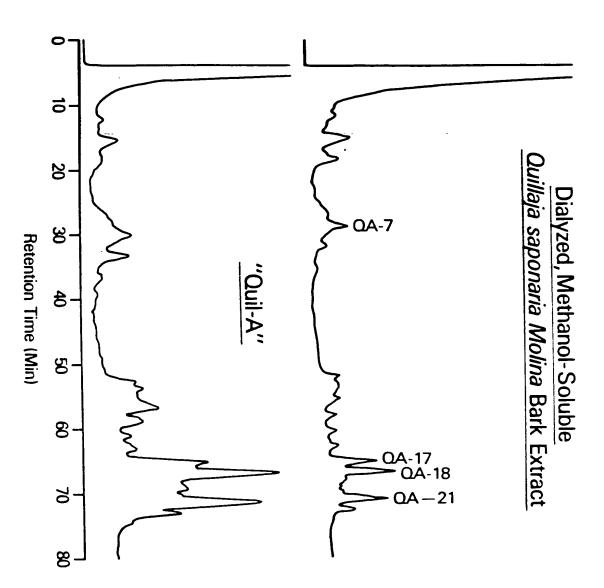
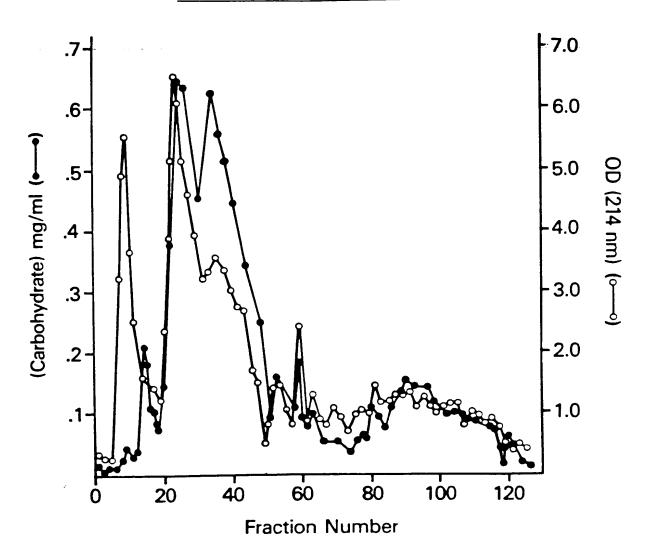


Figure 3

Figure 4A
Silica Chromatography



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QA-21

Retention Time (Min)



Figure 4B

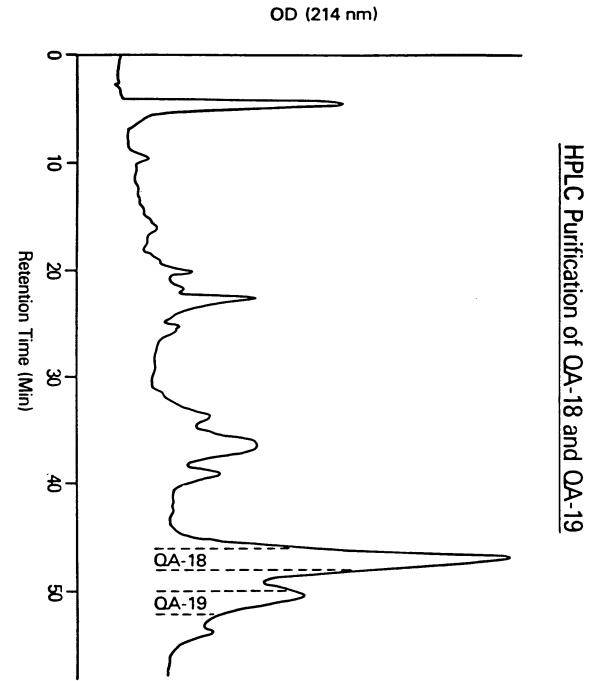
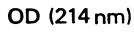


Figure 4C



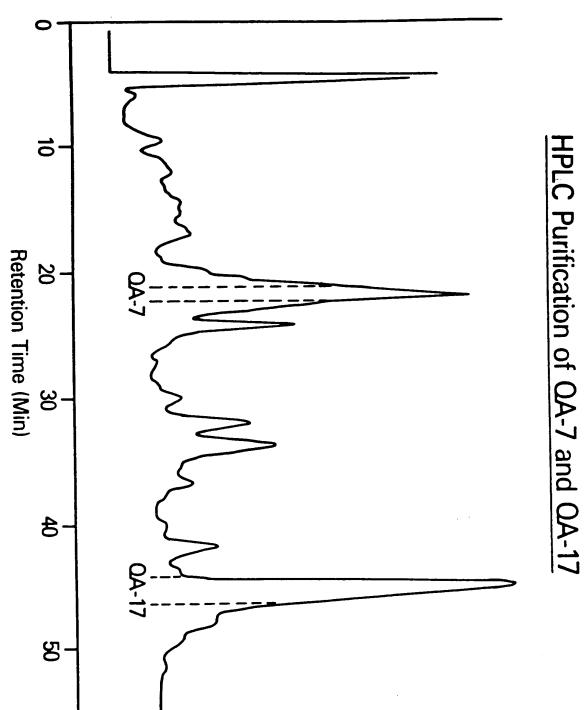


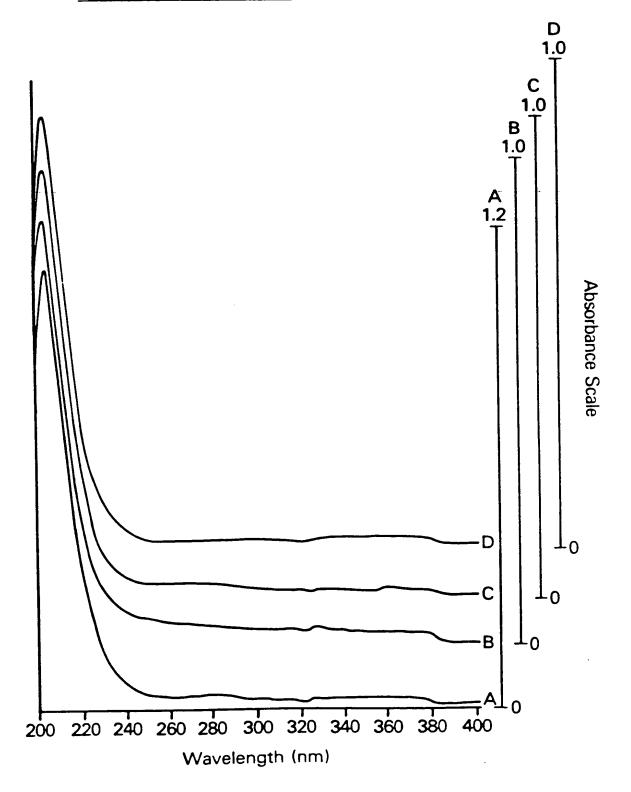
Figure 4D

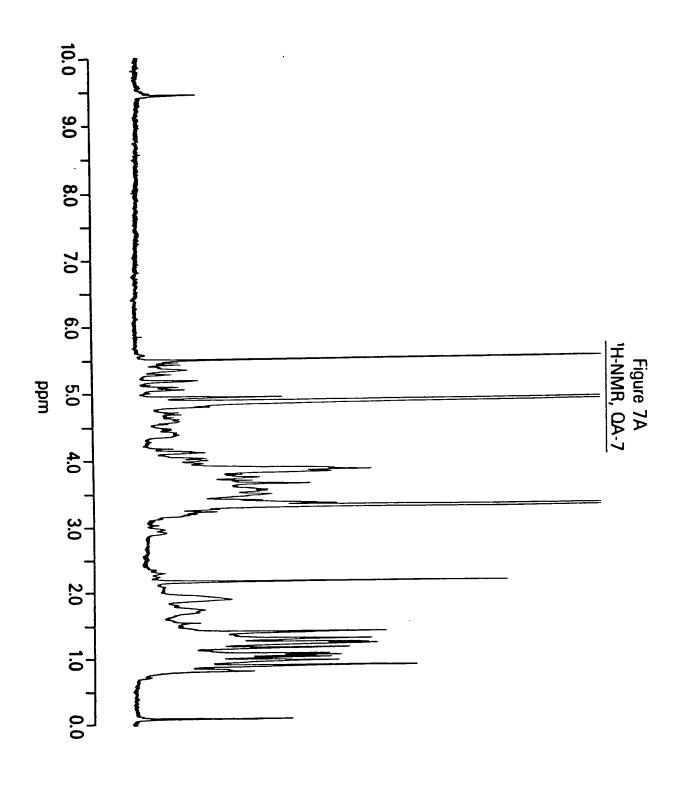
BEST AVAILABLE COPY

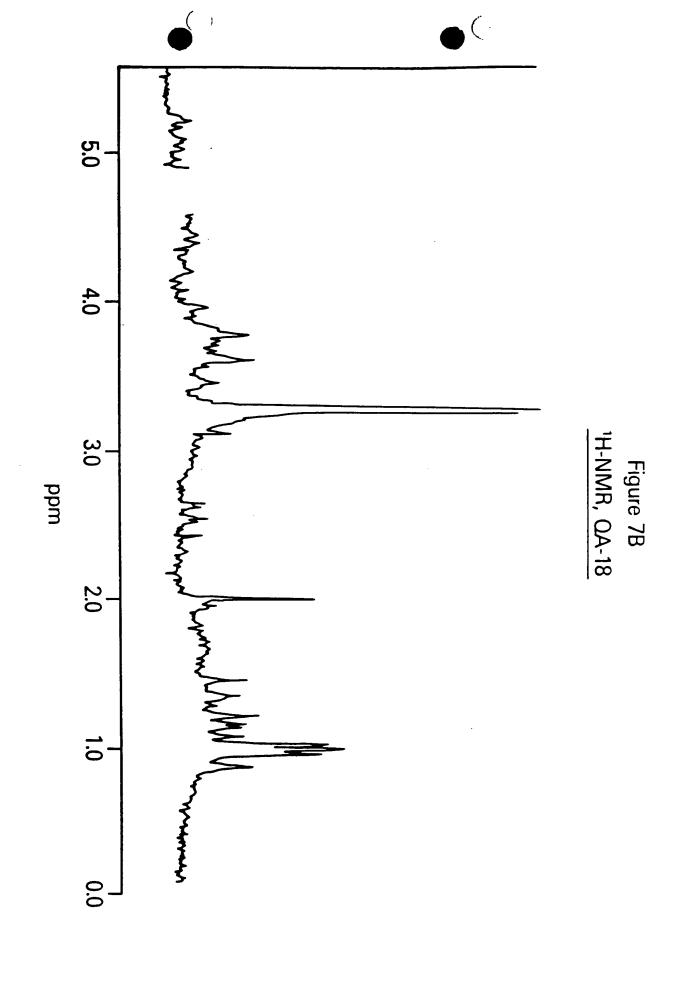


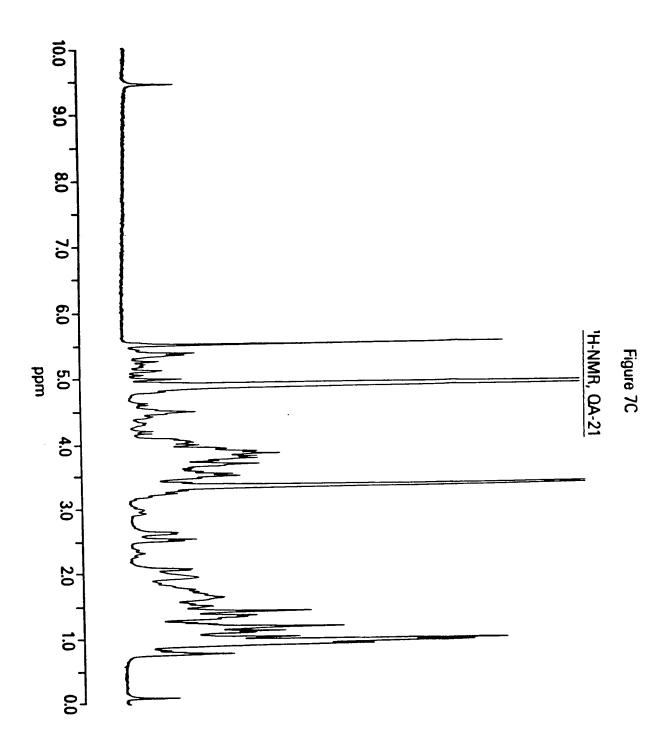
Figure 6

UV Spectroscopy of Saponin Adjuvants



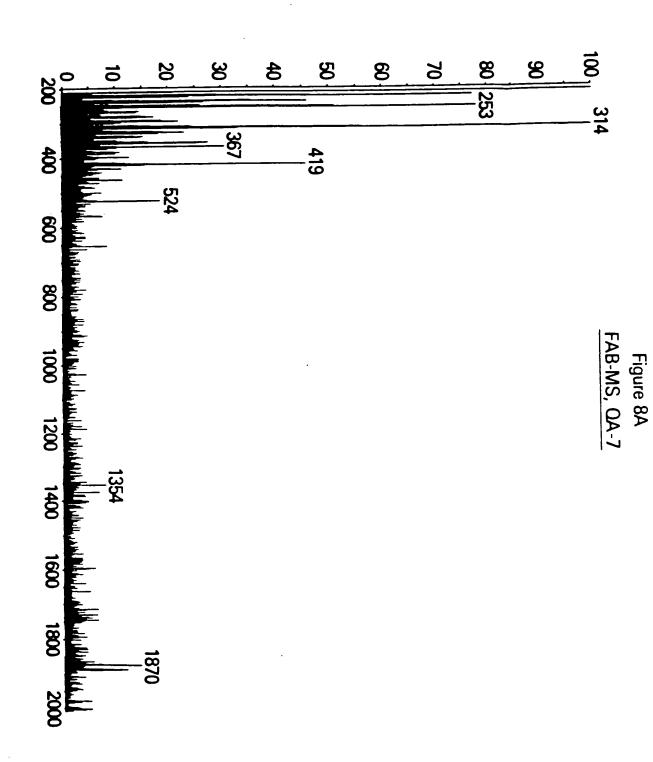


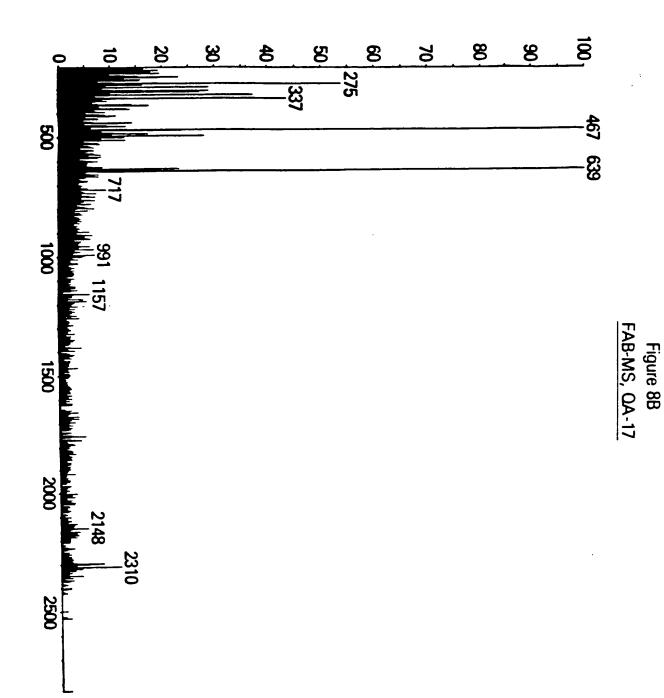




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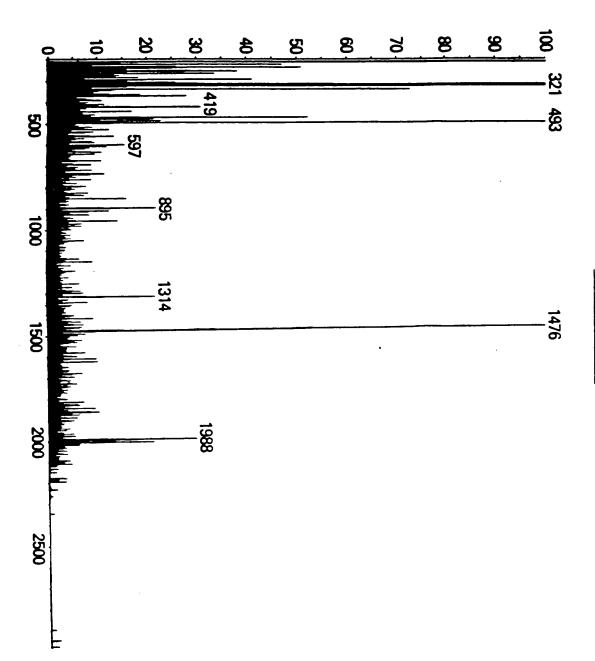


Figure 8C FAB-MS, QA-21

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Figure 9

Gel Filtration of Saponin Micelles

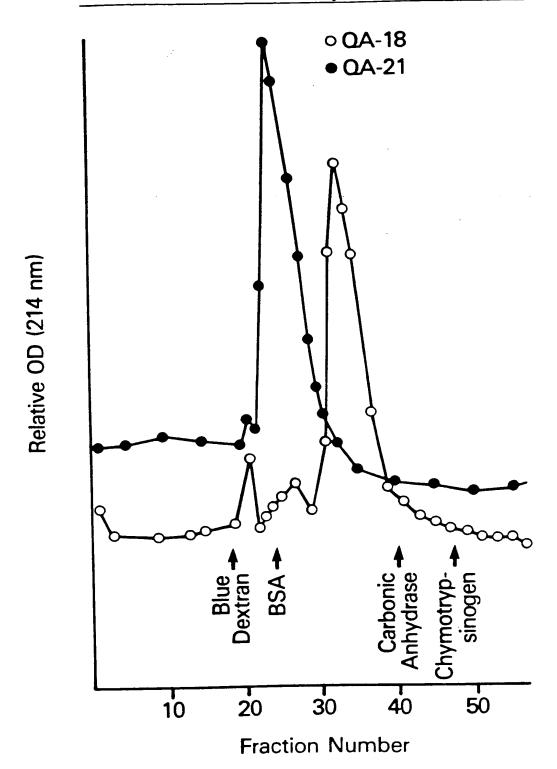
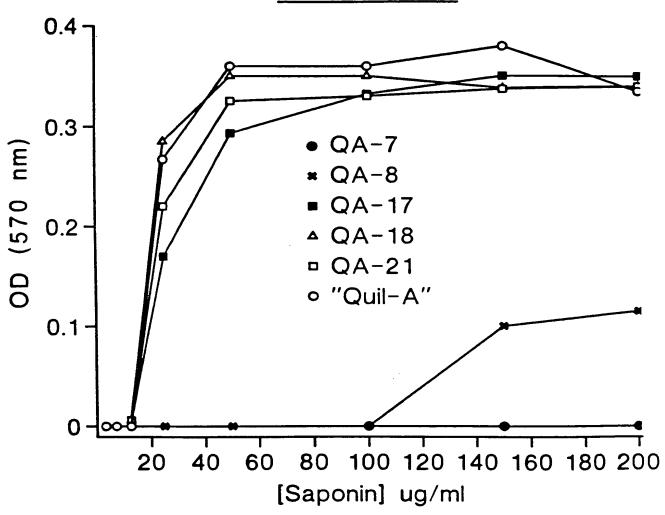


Figure 10

Hemolysis of Sheep Red Blood Cells

by Saponins



0.5 -10-0 Adjuvant
QA-2
QA-3
QA-4
QA-7 <u>.</u> õ Anti-BSA ELISA • QA-10 • QA-11 • QA-12 • QA-13,14 Adjuvant Sera Dilution 102 Figure 11 ō 10' 102 Adjuvant
QA-15
QA-16
QA-17
QA-17
QA-18
QA-19 • QA-20 103 104

OD (410 nm)

Figure 12

## Anti-BSA ELISA

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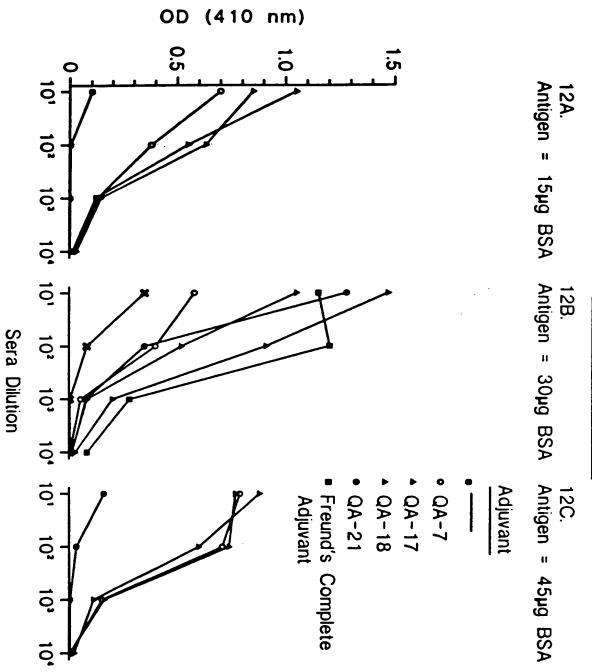
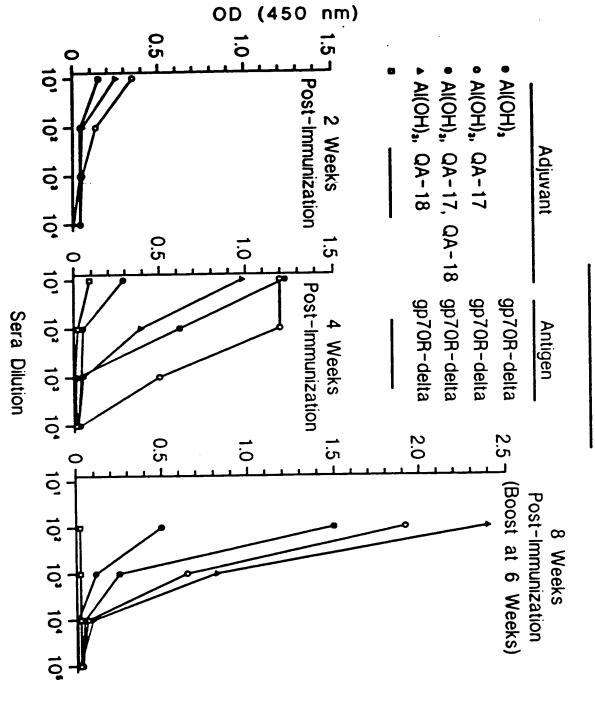


Figure 13

## Anti-FeLV ELISA



OD (450 nm) ō Post-Immunization 2 Weeks õ Sera Dilution 0.5 1.0 1.5 <u>0</u> Post-Immunization 03 4 Weeks ō • AI(OH)<sub>3</sub>, QA-7 • AI(OH)<sub>3</sub>, QA-17, QA-18 o AI(OH), QA-17 ♦ AI(OH), QA-7, QA-17 \* AI(OH), QA-18 AI(OH), AI(OH), QA-7, QA-18 ó Adjuvant Alkylated gp70R-delta Antigen

Anti-FeLV ELISA

Figure 14

Figure 15 Anti-BSA ELISA

